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The following CALCULATIONS and PROJECTIONS of the Transit of Venus were laid before the Society agreeable to their Dates, and claim a Place here, as it may be of use, in various Respects, to compare them with the actual Observations of the Transit, afterwards made in this Province; and from thence to collect the Differences between Computation and Observation, together with the Causes of those Differences.

PROJECTION of the enfuing TRANSIT of VENUS over the SUN, which is to happen June 3d, 1769. By David Rittenhouse, A. M.

ELEMENTS from Halley's Tables, for Lat. 40° N. & Long. 75 W. from Greenwich.

Communicated by Revd. Dr. Smith, June 21, 1769.

At 8 Hours P. M. Sun's Place, 25 13 3 35 2 Lat. \$ N. 3' 18"

Log. \Leftrightarrow \grave{a} \Leftrightarrow 5.006568 Diffance 10152335 Log. \Leftrightarrow \grave{a} \Leftrightarrow 4.861095 Diff. 7262652 Log. \Leftrightarrow \grave{a} \Leftrightarrow 4.460858 Diff. 28897333 Diff. Log. .400237

Apparent Semidiameter of © 15'. 51"=15', 85
Apparent Semidiameter of 9 - 0', 5719
Diminish'd * Semidiam. of © 6',3065 in Ratio of 7262 to 2889

Beginning of the Transit, 2h. 16'

End 8. 50

But supposing the Sun's Horizontal Parallax but 8 Seconds, then for the above Lat. and Lon.

First External Contact will be at 2h. 11min.

* The Diameters were diminished to answer the Scale to which the Latitude of Venus was set off in the Projection.

See the Projection; Plate, I.